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TITLE: TWO-DIMENSIONAL INFORMATION PROCESSOR

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ABSTRACT:

PROBLEM TO BE SOLVED: To execute a high grade processing by processing information between respective cells on the two-dimensional sensor surface of a sensor.

SOLUTION: A two-dimensional picture sensor is constituted of unit cell circuits 1, an address ramp waveform generating circuit 2, address lines 3, a bus line 4, a pulse width/electric charge detecting circuit 5 and a shutter 19. The unit cell circuits 1 are arranged in a two-dimensional matrix-shape. The respective unit cell circuits 1 are connected to the plural address lines 3 which are extended from the address ramp waveform generating circuit 2 to a string direction. When two-dimensional optical information from an outside is inputted, the whole matrix surface is exposed to light. Unit cells are made to store two-dimensional information which is optically or electrically written and a ramp waveform voltage is selectively supplied to the prescribed unit cell so that a pulse width modulation(PWM) signal is generated, which rises at the increase start time of the ramp waveform voltage and falls at a time when the voltage corresponding to stored information quantity coincides with the supplied ramp waveform voltage.

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